

APPENDIX D. SENSITIVE SPECIES OBSERVED OR POTENTIALLY OCCURRING AT THE SSFL FACILITY

Tables D-1 through D-5 are excerpted from the April 1998 *Biological Conditions Report, Santa Susana Field Laboratory* (Ogden 1998), and updated in 2000 with information from the *Standardized Risk Assessment Methodology (SRAM) Work Plan, Santa Susana Field Laboratory, Ventura County, California* (Ogden 2000, Appendix C).

Table D-1. Sensitive Plant Species

Species Name	State Status	Federal Status	Likelihood of Occurrence ^a
Santa Susana tarplant (<i>Hemizonia minthornii</i>)	Rare	--	Observed throughout the SSFL, primarily on rock outcrops.
Southern California black walnut (<i>Juglans californica</i> var. <i>californica</i>)	Candidate (CNPS List 4)	--	Observed throughout the SSFL.
Braunton's milkvetch (<i>Astragalus brauntonii</i>)	Candidate (CNPS List 1B)	Endangered	Observed in Area IV.
Plummer's mariposa lily (<i>Calochortus plummerae</i>)	Candidate (CNPS List 1B)	--	Not observed. Low potential to occur in chaparral habitat onsite. Less common at higher elevations. Has been reported in area of the SSFL but not on or immediately adjacent to the SSFL.
San Fernando Valley spineflower (<i>Chorizanthe parryi</i> var. <i>fernandina</i>)	Candidate (CNPS List 1A)	Candidate	Not observed. Extremely low potential to occur at SSFL.
Santa Monica Mountains dudleya (<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>)	Candidate (CNPS List 1B)	Threatened	Not observed. Low potential to occur onsite. Known from fewer than 10 occurrences, none of which are at or adjacent to the SSFL.
Lyon's pentachaeta (<i>Pentachaeta lyonii</i>)		Endangered	Not observed. May occur onsite. Additional surveys planned.
California orcutt grass (<i>Orcuttia californica</i>)		Endangered	Not observed. May occur onsite. Additional surveys planned.
Many-stemmed dudleya (<i>Dudleya multicaulis</i>)	Candidate (CNPS List 1B)	--	Not observed. Low potential to occur in the coastal sage scrub and chaparral habitats onsite. Not reported to occur at or adjacent to the SSFL.

a. Likelihood of occurrence is based on known species range and the presence and quality of suitable habitat.

CNPS = California Native Plant Society
SSFL = Santa Susana Field Laboratory

Table D-2. Sensitive Reptile Species

Species Name	State Status	Federal Status	Likelihood of Occurrence^a
San Diego horned lizard (<i>Phrynosoma coronatum blainvillei</i>)	Species of Special Concern	--	Not observed. High potential to occur in appropriate habitat at the SSFL. Known to occur within the Santa Susana Mountains.
Silvery legless lizard (<i>Anniella pulchra pulchra</i>)	Species of Special Concern	--	Not observed. Moderate potential to occur in appropriate habitat (chaparral and coastal scrub) at the SSFL.
Coastal rosy boa (<i>Lichanura trivirgata roseofusca</i>)	Protected	--	Not observed. High potential to occur in appropriate habitat (rocky chaparral-covered hillsides and canyons) at the SSFL.
Coast patch-nosed snake (<i>Salvadora hexalepis virgultea</i>)	Species of Special Concern	--	Not observed. High potential to occur in appropriate habitat (coastal chaparral) at the SSFL. Widely distributed throughout California.
Two-striped garter snake (<i>Thamnophis hammondi</i>)	Special Animal	--	Expected to occur throughout appropriate habitat at the SSFL.
Southern rubber boa (<i>Charina bottae umbratica</i>)	Species of Special Concern		Could potentially occur at SSFL.
Southern Pacific rattlesnake (<i>Crotalis viridis helleri</i>)	Species of Special Concern		Could potentially occur at SSFL.
San Diego mountain king snake (<i>Lampropeltis zonata pulchra</i>)	Protected	--	Not observed. Low to moderate potential to occur in the rock outcrop habitat at the SSFL. May be at edge of range.

a. Likelihood of occurrence is based on known species range and the presence and quality of suitable habitat.

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Table D-3. Sensitive Aquatic, Amphibian, and Insect Species

Species Name	State Status	Federal Status	Likelihood of Occurrence^a
San Diego fairy shrimp (<i>Branchinecta sandiegoensis</i>)		Endangered	Could potentially occur at SSFL.
Western spadefoot toad (<i>Scaphiopus hammondi</i>)	Species of Special Concern	--	Not observed. Low to moderate potential to occur at the SSFL. Occurs primarily in native grasslands at lower elevations. Few small patches of native grassland occur at the SSFL and may not be sufficient to support toad populations.
Southwestern pond turtle (<i>Clemmys marmorata pallida</i>)	Species of Special Concern (under review for protected status)	--	Not observed. Low to moderate potential to occur in the aquatic habitat at the SSFL.
Arroyo southwestern toad (<i>Bufo microscaphus californicus</i>)		Endangered	Could potentially occur at SSFL.
California red-legged frog (<i>Rana aurora draytoni</i>)	Species of Special Concern	Threatened	Not observed. Low potential to occur in the aquatic habitat at the SSFL. Uncommon throughout southern California.
Quino checkerspot butterfly (<i>Euphydryas editha quino</i>)		Endangered	Could potentially occur at SSFL.

a. Likelihood of occurrence is based on known species range and the presence and quality of suitable habitat.

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Table D-4. Sensitive Bird Species

Species Name	State Status	Federal Status	Likelihood of Occurrence ^a
Double-crested cormorant (<i>Phalacrocorax auritus</i>)	Species of Special Concern	--	Observed on Silvernale Reservoir. There is only a low to moderate probability that this species nests onsite.
Great blue heron (<i>Ardea herodias herodias</i>)	Special Animal	--	Observed in freshwater marsh and aquatic habitat at the Silvernale Reservoir. Moderate potential to nest in the large trees at SSFL and at the Building 56 Landfill.
California gnatcatcher (<i>Poliophtila californica</i>)	Species of Special Concern	Threatened	Not observed. Low potential to occur in the sage scrub habitat onsite. May be at edge of known range. Focused surveys did not detect gnatcatchers.
Southern California rufous-crowned sparrow (<i>Aimophila ruficeps canescens</i>)	Species of Special Concern	--	Observed near of Area IV.
Loggerhead shrike (<i>Lanius ludovicianus</i>)	Species of Special Concern	--	Observed near Area IV. This species probably nests at SSFL.
Least Bell's vireo (<i>Vireo belii pusillus</i>)		Endangered	Could potentially occur at SSFL.
Southwestern willow flycatcher <i>Empidonax trailii extimus</i>		Endangered	Could potentially occur at SSFL.
Sharp-shinned hawk (<i>Accipiter striatus velox</i>)	Species of Special Concern	--	Observed flying over the SSFL. Historically documented at SSFL by Rocketdyne personnel.
Red-shouldered hawk (<i>Buteo lineatus elegans</i>) ^b	--	--	Observed evidence of nesting in Area IV.
Red-tailed hawk (<i>Buteo jamaicensis</i>) ^b	--	--	Observed roosting in the vicinity of Area IV, and flying over the Building 56 Landfill.
Turkey vulture (<i>Cathartes aura</i>) ^b	--	--	Observed roosting and flying over the entire SSFL; expected to forage on the property.
Great horned owl (<i>Bubo virginianus</i>) ^b	--	--	Observed two owls roosting in the vicinity of Area IV.
Cooper's hawk (<i>Accipiter cooperii</i>)	Species of Special Concern	--	Observed a male and female roosting in the vicinity of Area IV. This species has a high probability of nesting onsite.
Golden eagle (<i>Aquila chrysaetos canadensis</i>)	Species of Special Concern	Protected	Not observed during biological surveys; however, this species has been historically documented by Rocketdyne personnel.

a. Likelihood of occurrence is based on known species range and the presence and quality of suitable habitat.

b. Although no official status is given for these raptors, raptor nests are protected to varying degrees by separate state regulations. Additionally, raptors are considered important to the ecosystem due to their position at the top of the food chain.

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Table D-5. Sensitive Mammal Species

Species Name	State Status	Federal Status	Likelihood of Occurrence^a
Bobcat (<i>Felis rufus</i>)	Harvest Species	--	Observed throughout the SSFL.
Mule deer (<i>Odocoileus hemionus</i>)	Harvest Species	--	Observed throughout the SFL.
San Diego black-tailed jackrabbit (<i>Lepus californica bennettii</i>)	Species of Special Concern	--	Observed in Area IV.
Los Angeles little pocket mouse (<i>Perognathus longimembris brevinasus</i>)	Species of Special Concern	Under review for endangered or threatened status	Not observed. Low to moderate potential to occur in appropriate habitat at SSFL. A live-trapping study would need to be performed to determine if this subspecies is present at SSFL.
Ringtail (<i>Bassariscus astutus</i>)	Protected	--	Moderate to high potential to occur at SSFL in areas of rock outcrops.
Mountain lion (<i>Felis concolor</i>)	Harvest Species	--	Not observed. High potential to occur at SSFL. Known to occur in the area.
American badger (<i>Taxidea taxus jeffersoni</i>)	Species of Special Concern, Harvest Species	--	Not observed. High potential to occur at SSFL. Known to occur in the area.
San Diego desert woodrat (<i>Neotoma lepida intermedia</i>)	Species of Special Concern	--	Not observed during biological surveys; however, this species has been historically documented by SSFL personnel.

a. Likelihood of occurrence is based on known species range and the presence and quality of suitable habitat.

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REFERENCES

Ogden Environmental and Energy Services Co., Inc. 1998. *Biological Conditions Report, Santa Susana Field Laboratory, Ventura County, California*. Available at the SSFL Public Information Repository.

Ogden Environmental and Energy Services Co., Inc. 2000. Standardized Risk Assessment Methodology (SRAM) Work Plan, Santa Susana Field Laboratory, Ventura County, California. Available at the SSFL Public Information Repository